The essay presents an in-depth and well-structured review of the Succinct Range Filter (SuRF), effectively introducing its foundational concepts and significance in modern database systems. It is impressive how the author connects the need for efficient query processing with SuRF's innovative design, highlighting its advantages over traditional Bloom filters. The detailed explanations of SuRF's architecture, such as the Fast Succinct Trie (FST) and its encoding schemes, demonstrate a strong grasp of the technical aspects. Furthermore, the inclusion of practical examples and performance benchmarks enhances the essay's applicability, making it an insightful resource for understanding SuRF's role in systems like RocksDB.

While the essay is comprehensive, a few enhancements could make it even better. Some technical explanations, particularly on LOUDS-Dense and LOUDS-Sparse schemes, could be elaborated further for readers less familiar with trie data structures. Additionally, a more balanced discussion that includes potential limitations of SuRF or areas where it may underperform would provide a holistic perspective. Minor grammatical refinements and consistent formatting would also improve the essay's readability and presentation. Also it is more than 2 pages.

In conclusion, the essay is a commendable effort that provides a thorough and engaging overview of SuRF, effectively bridging theory with practical implications. By addressing the suggested enhancements, it could serve as an even more robust and accessible resource for both academic and professional audiences interested in database optimizations.